BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 5000000.00

Name of Work: **Detailed Estimate for the work of Construction of CC roads and drains at Kanakanagara in ward no-04.**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD (S.R 2016-17).	Cum.							
	for levelling and lowering inside GPS premises		1	20.00	15.00	0.20	60.00		
			1	6.70	4.30	0.20	5.76		
			1	6.00	4.00	0.20	4.80		
	at samudaya Bhavana		1	12.00	3.50	0.20	8.40		
			1	15.00	2.50	0.20	7.50		
	Near GPS		1	14.00	5.50	0.20	15.40		
							101.86	**86.92**	**8854.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	KSRRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)	**cum**							
	for RCC drain kanakangara main road left side		1	160.00	1.00	1.00	160.00		
	right side		1	140.00	1.00	1.00	140.00		
	for culvert		6	6.00	1.50	1.30	70.20		
			1	10.00	1.50	1.50	22.50		
							392.70	**200.34**	**78674.00**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	**200.34**							

Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
				Vide Item No. 1			494.56	85.65	42358.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4	12.80							
		80.80							
	Area Weightage @ 6%	4.85							
	Total	**85.65**							
4	KSRRB M300-53: construction of embbankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 1366 Item No. 19.60/ PWD SR 2016-17	cum							
	inside GPS premises		1	20.00	15.00	0.20	60.00	-	
			1	6.70	4.30	0.20	5.76		
			1	6.00	4.00	0.20	4.80		
	at samudaya Bhavana		1	12.00	3.50	0.20	8.40		
			1	15.00	2.50	0.20	7.50		
	Near GPS		1	14.00	5.50	0.20	15.40		
							101.86	**320.12**	**32608.06**
	Basic Rate	302.00							
	Area Weightage @ 6%	18.12							
	Total	**320.12**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. **Providing, laying, spreading and compacting graded stones aggregate to wet mix** macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, , laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)	cum							
	inside GPS premises		1	20.00	15.00	0.15	45.00		
			1	6.70	4.30	0.15	4.32		
			1	6.00	4.00	0.15	3.60		
	at samudaya Bhavana		1	12.00	3.50	0.15	6.30		
			1	15.00	2.50	0.15	5.63		
	Near GPS		1	14.00	5.50	0.15	11.55		
			1	140.00	0.60	0.30	25.20		
							101.60	1768.08	**179631.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
6	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix **1:3:6 with OPC cement @** 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17	Cum							
	for RCC drain		1	160.00	0.90	0.15	21.60		
			1	140.00	0.90	0.15	18.90		
	For CC road inside GPS premises		1	20.00	15.00	0.15	45.00		
			1	6.70	4.30	0.15	4.32		
			1	6.00	4.00	0.15	3.60		
	at samudaya Bhavana		1	12.00	3.50	0.15	6.30		
			1	15.00	2.50	0.15	5.63		
	Near GPS		1	14.00	5.50	0.15	11.55		
	culvert		6	6.00	1.50	0.15	8.10		
			1	10.00	1.50	0.15	2.25		
	drain edge		2	140.00	0.60	0.15	25.20		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	road approach		2	10.00	5.00	0.10	10.00		
							162.45	**5348.76**	**868887.00**
	Basic Rate	5046.00							
	Area Weightage @ 6%	302.76							
	Total	**5348.76**							
7	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc**, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	**Cum**							
	for rcc drain bed		1	160.00	0.90	0.15	21.60		
	wall	1x2	2	160.00	0.15	0.75	36.00		
			1	140.00	0.90	0.15	18.90		
			2	140.00	0.15	0.75	31.50		
	for culvert		6	6.00	1.20	0.23	9.94		
			12	6.00	0.23	1.00	16.56		
			1	10.00	1.20	0.23	2.76		
			2	10.00	0.23	1.00	4.60		
	drain edge		2	140.00	0.60	0.10	16.80		
	road approach		2	10.00	5.00	0.10	10.00		
							168.66	**6371.66**	**1074619.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							

Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	MT ~~MT~~ Quintal							
	for 100 kg/cum		1.000	**33.86**			33.86	70675.00	
	for rcc drain 75 kg/cum		0.750	**108.00**			81.00		
				141.86			**114.86**	**7067.50**	**811745.00**
	Basic Rate	7067.50		70675.00			11.486		
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2016-17	sqm							
	for rcc drain	1x4	4	160.00		0.75	480.00		
		1x4	4	140.00		0.75	420.00		
		6x4	24	6.00		1.00	144.00		
		1x4	4	10.00		1.00	40.00		
							1084.00	**310.58**	**336669.00**
	Basic Rate	293.00						-	
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
10	Providing precast slab of **250 mm thick including cost of all** materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	**sqm**							
		6x10	60	1.50	0.60		54.00		
		1x17	17	1.50	0.60		15.30		
							69.30	**5111.00**	**354192.00**
	Data Rate	5111.00							
11	Providing precast slab of 100 **mm thick including cost of all** materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	**sqm**							
			1	160.00	0.90		144.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	75.00	0.90		67.50		
							211.50	**2100.00**	**444150.00**
	Data Rate	2100.00							
12	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction, and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum). . No.	**Cum**							
	For CC road inside GPS premises		1	20.00	15.00	0.15	45.00		
			1	6.70	4.30	0.15	4.32		
			1	6.00	4.00	0.15	3.60		
	at samudaya Bhavana		1	12.00	3.50	0.15	6.30		
			1	15.00	2.50	0.15	5.63		
	Near GPS		1	14.00	5.50	0.15	11.55		
							76.40	**6217.96**	**475030.00**
	Basic Rate	5866.00							
	Area Weightage @ 6%	351.96							
	Total	**6217.96**							
13	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. Page No 177 Item No 22.7 SR 2016-17	**Sqm**							
	For CC road inside GPS premises		1	20.00	15.00		300.00		
			1	6.70	4.30		28.81		
			1	6.00	4.00		24.00		
	at samudaya Bhavana		1	12.00	3.50		42.00		
			1	15.00	2.50		37.50		
	Near GPS		1	14.00	5.50		77.00		
							509.31	**95.40**	**48588.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 178 SR 2016-17	Rmt							
	for cc road		7	15.00			105.00		
			3	4.30			12.90		
			3	4.00			12.00		
			4	3.50			14.00		
			5	2.50			12.50		
			5	5.50			27.50		
							183.90	**121.90**	**22417.00**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
15	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. Page No. 28/ Item No. 5.29/ PWD SR 2016-17	Nos							
			1	160.00			**160.00**		
			1	98.00			**98.00**		
							258.00		
					0.45		**573.33**		
							573.00	385.84	**221086.00**
	Basic Rate	364.00							
	Area Weightage @ 6%	21.84							
	Total	**385.84**							
16	Miscellaneous charges								491.94
								Total	**5000000.00**
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.

Assistant Engineer

Assistant Executive Engineer
Yelahanka new town Sub division.
Bangalore-64

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Yelahanka Division
Bangalore-64

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

13/11/17

Administrative Approval
Accorded For Rs:50.00lakhs
Head of A/C P-1878
CER NO : 64/17-18 Dt:8-11-17

E.E. (Project)

Technical Sanction
Accorded For 50.00 lakhs.
Head of A/C P1878
CER NO : 366 Dt:.. 10/11/17

TA CE (YNK)